

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|--|---------------------------|------------------|---------|---------------------|
| S2 | 18 | ("5160713" "5516359" "5562754" "5565017" "5820654" "5852925" "5888272" "5964922" "6010614" "6077323" "6106591" "6114400" "6117210" "6139604" "6139810" "6149714" "6296686" "6309612").PN. OR ("6562104").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/10/18 08:02 |
| S4 | 4 | oxygen production membrane | US-PGPUB; USPAT | ADJ | ON | 2007/10/18 08:13 |
| S5 | 3265 | oxygen SAME production SAME membrane | US-PGPUB; USPAT | ADJ | ON | 2007/10/18 08:13 |
| S6 | 839 | oxygen WITH production WITH membrane | US-PGPUB; USPAT | ADJ | ON | 2007/10/18 08:12 |
| S8 | 4 | oxygen product\$3 membrane\$1 | US-PGPUB; USPAT | ADJ | ON | 2007/10/18 08:13 |
| S9 | 6737 | oxygen SAME product \$3 SAME membrane \$1 | US-PGPUB; USPAT | ADJ | ON | 2007/10/18 08:13 |
| S10 | 1 | "6202574".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/10/18 13:21 |
| S11 | 812 | 122/4D.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 10:25 |
| S12 | 6737 | oxygen SAME product \$3 SAME membrane \$1 | US-PGPUB; USPAT | ADJ | ON | 2007/10/18 14:42 |
| S13 | 449 | S12 and fluidiz\$ | US-PGPUB; USPAT | ADJ | ON | 2007/10/18 14:41 |
| S14 | 15528 | oxygen WITH membrane\$1 | US-PGPUB; USPAT | ADJ | ON | 2007/10/18 14:43 |

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|-----|--------|---|--------------------|-----|----|---------------------|
| S15 | 736 | S14 and fluidiz\$ | US-PGPUB; USPAT | ADJ | ON | 2007/10/18 14:49 |
| S16 | 354 | S15 and (boiler or furnace) | US-PGPUB; USPAT | ADJ | ON | 2007/10/18 14:48 |
| S17 | 15 | S14 and (fluidiz\$ NEAF3 (boiler or furnace)) | US-PGPUB; USPAT | ADJ | ON | 2007/10/18 14:49 |
| S18 | 606658 | high NEAR4 temperature | US-PGPUB; USPAT | ADJ | ON | 2007/10/18 15:01 |
| S19 | 386 | S18 SAME oxygen SAME (production or transport or separation or extraction) SAME membrane | US-PGPUB; USPAT | ADJ | ON | 2007/10/18 15:04 |
| S20 | 1 | "5888272".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/10/23 15:58 |
| S21 | 812 | 122/4D.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 10:26 |
| S22 | 17 | S21 and fluidiz\$ and (oxygen WITH membrane or catalyst or ceramic)) | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 10:42 |
| S23 | 1804 | 432/58,77-80.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 10:36 |
| S24 | 4 | S23 and fluidiz\$ and (oxygen WITH membrane or catalyst or ceramic)) | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 10:38 |
| S25 | 0 | S23 and fluidiz\$ and (oxygen WITH membrane) | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 10:38 |
| S26 | 0 | S23 and fluidiz\$ and (oxygen Same membrane) | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 10:38 |
| S27 | 6 | S23 and fluidiz\$ and (oxygen Same membrane or catalyst or ceramic)) | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 10:41 |
| S28 | 1085 | 110/243-245.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 10:41 |
| S29 | 19 | S28 and fluidiz\$ and (oxygen WITH membrane or catalyst or ceramic)) | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 10:42 |
| S30 | 225 | S28 and fluidiz\$ and (membrane or catalyst or ceramic) | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 10:57 |

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|-----|-------|---|-----------------|-----|----|------------------|
| S31 | 176 | S28 and fluidiz\$ and (membrane or ceramic) | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 10:57 |
| S32 | 21903 | "96"/\$.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 16:57 |
| S33 | 534 | S32 and fluidiz\$ | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 17:19 |
| S34 | 23 | S33 and (oxygen with membrane) | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 17:17 |
| S35 | 370 | S32 and (fluidiz\$ NEAR3 bed) | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 17:23 |
| S36 | 97 | S35 and ion | US-PGPUB; USPAT | ADJ | ON | 2007/10/24 17:24 |
| S37 | 9 | (4683840 5123939 5345884 5568776 5954001 6737031 6938780 6779492 6067943).pn. | US-PGPUB; USPAT | ADJ | ON | 2007/10/25 09:36 |
| S38 | 3 | (5478370 6505567 6494153).pn. | US-PGPUB; USPAT | ADJ | ON | 2007/10/25 09:39 |
| S39 | 5 | (6539719 6562104 6786952 6503296 5447555).pn. | US-PGPUB; USPAT | ADJ | ON | 2007/10/25 09:50 |
| S40 | 130 | prasad-ravi.in. | US-PGPUB; USPAT | ADJ | ON | 2007/10/25 09:50 |
| S41 | 95 | (US-20040101472-\$ or US-20060011148-\$ or US-20060000425-\$ or US-20030217704-\$ or US-20040065273-\$ or US-20070137478-\$ or US-20070134604-\$ or US-20070125701-\$ or US-20070122667-\$ or US-20070079703-\$ or US-20070041894-\$ or US-20060239874-\$ or US-20060230762-\$ or US-20060180022-\$ or US-20060064985-\$ or US-20050053878-\$ or US-20050037299-\$ or US-20050031531-\$ or US-20050006249-\$ or US-20040123601- | US-PGPUB; USPAT | ADJ | ON | 2007/10/25 13:32 |

\$ or US-
20050252372-\$ or
US-20040221722-\$
or US-20040128975-
\$ or US-
20040011057-\$ or
US-20040002030-\$
or US-20030089229-
\$).did. or (US-
20030056647-\$ or
US-20020073844-\$
or US-20020043064-
\$ or US-
20010030127-\$ or
US-20060196355-\$
or US-20020073938-
\$ or US-
20060115691-\$ or
US-20050241311-\$
or US-20050235650-
\$ or US-
20050061663-\$ or
US-20040244356-\$
or US-20050139067-
\$).did. or (US-
6505567-\$ or US-
5326252-\$ or US-
5320518-\$ or US-
5476639-\$ or US-
5193490-\$ or US-
5406914-\$ or US-
5341766-\$ or US-
5054436-\$ or US-
5005528-\$ or US-
5463968-\$ or US-
5347953-\$ or US-
4667610-\$ or US-
4966101-\$ or US-
6562104-\$ or US-
5888272-\$ or US-
5516359-\$ or US-
6202574-\$ or US-
6986797-\$ or US-
6907845-\$ or US-
6779492-\$ or US-
7194983-\$ or US-
6237541-\$ or US-
6101983-\$ or US-
6003476-\$ or US-
6264465-\$ or US-
5634329-\$).did. or
(US-4969404-\$ or
US-6877322-\$ or US-
6945029-\$ or US-
7179323-\$ or US-

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| | | 7160357-\$ or US- 6702570-\$ or US- 6547286-\$ or US- 6541159-\$ or US- 6368383-\$ or US- 6499300-\$ or US- 6395066-\$ or US- 6360524-\$ or US- 5980840-\$ or US- 5855648-\$ or US- 5657624-\$ or US- 5573737-\$ or US- 6562105-\$ or US- 6382958-\$ or US- 5723074-\$ or US- 5910238-\$ or US- 5174866-\$ or US- 4583996-\$ or US- 4545787-\$ or US- 4758341-\$ or US- 5954001-\$ or US- 5345884-\$ or US- 6539719-\$).did. or (US-6565632-\$ or US-5852925-\$ or US- 5547494-\$ or US- 5535687-\$).did. | | | | |
| S42 | 4 | S41 and (waste heat boiler) | US-PGPUB; USPAT | ADJ | ON | 2007/10/25 13:46 |
| S43 | 1 | "7062912".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/10/25 13:36 |
| S44 | 0 | S41 and (waste boiler) | US-PGPUB; USPAT | ADJ | ON | 2007/10/25 13:41 |
| S45 | 11 | S41 and (waste WITH boiler) | US-PGPUB; USPAT | ADJ | ON | 2007/10/25 13:42 |
| S46 | 37 | S41 and (waste) | US-PGPUB; USPAT | ADJ | ON | 2007/10/25 13:43 |
| S47 | 812 | 122/4D.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/10/25 13:46 |
| S48 | 31 | S47 and (waste heat boiler) | US-PGPUB; USPAT | ADJ | ON | 2007/10/25 13:46 |
| S49 | 3 | (6095095 5809940 5471955).pn. | US-PGPUB; USPAT | ADJ | ON | 2007/10/26 12:29 |
| S50 | 3 | (5345896 5332553 5156099).pn. | US-PGPUB; USPAT | ADJ | ON | 2007/10/26 12:29 |
| S51 | 1 | "3659559".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/10/29 08:59 |
| S52 | 1 | "5239946".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/10/29 13:36 |

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| S53 | 22 | ("3975165" "4109031" "4444731" "4588607" "5086034" "5160713" "5306411" "5418060").PN. OR ("5573737").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/10/29 14:53 |
| S54 | 1 | "7179323".pn. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/10/29 15:24 |
| S55 | 1 | US-7179323-\$.did. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/10/29 15:25 |
| S56 | 2 | US-7179323-\$.did. | US-PGPUB; USPAT; USOCR; DERWENT | ADJ | ON | 2007/10/29 15:25 |
| S57 | 1832 | oxygen WITH product \$3 WITH membrane \$1 | US-PGPUB; USPAT | ADJ | ON | 2007/10/30 08:06 |
| S58 | 21921 | "96"/\$.ccis. | US-PGPUB; USPAT | ADJ | ON | 2007/10/30 08:06 |
| S59 | 201 | S58 and S57 | US-PGPUB; USPAT | ADJ | ON | 2007/10/30 08:06 |
| S60 | 1388 | oxygen WITH transport\$3 WITH membrane\$1 | US-PGPUB; USPAT | ADJ | ON | 2007/10/30 08:40 |
| S61 | 137 | S58 and S60 | US-PGPUB; USPAT | ADJ | ON | 2007/10/30 08:40 |
| S62 | 2 | (6562104 6505567). pn. | US-PGPUB; USPAT | ADJ | ON | 2007/10/30 14:01 |
| S63 | 13 | ("3876392" "4244779" "4426810" "4498289" "4597771" "4731099" "4745884" "5175995" "5335609" "5339774" "5908804" "6202574").PN. OR ("6505567").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/10/30 14:16 |
| S64 | 1832 | oxygen WITH product \$3 WITH membrane \$1 | US-PGPUB; USPAT | ADJ | ON | 2007/10/30 16:02 |
| S65 | 21921 | "96"/\$.ccis. | US-PGPUB; USPAT | ADJ | ON | 2007/10/30 16:03 |
| S66 | 534 | S65 and fluidiz\$ | US-PGPUB; USPAT | ADJ | ON | 2007/10/30 16:03 |

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|-----|------|---|--|-----|----|---------------------|
| S67 | 1805 | 432/58,77-80.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/10/30 16:07 |
| S68 | 90 | S67 and fluidiz\$ and (membrane or catalyst or ceramic) | US-PGPUB; USPAT | ADJ | ON | 2007/10/30 16:07 |
| S69 | 7479 | oxygen SAME product \$3 SAME membrane \$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2007/10/30 16:47 |
| S70 | 456 | S69 and fluidiz\$ | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2007/10/30 16:48 |
| S71 | 436 | S70 and bed | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2007/10/30 16:48 |
| S72 | 18 | S69 SAME fluidiz\$ | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2007/10/30 16:50 |
| S73 | 3793 | oxygen SAME transport\$3 SAME membrane\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2007/10/30 17:13 |
| S74 | 7 | S73 SAME fluidiz\$ | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2007/10/30 17:13 |
| S75 | 1 | 2006-705703.NRAN. | DERWENT | ADJ | ON | 2007/10/30 17:24 |
| S76 | 1 | RD-465102-A.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | ADJ | ON | 2007/10/30 17:50 |
| S82 | 0 | WO-2002077419-\$. did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/10/31 08:35 |
| S83 | 1 | "6539719".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/10/31 08:36 |
| S84 | 1 | "6562104".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/10/31 08:40 |
| S86 | 3963 | mix;\$3 SAME conduct \$4 SAME membrane | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/10/31 08:48 |
| S87 | 147 | S86 and fluidiz\$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/10/31 08:48 |

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|------|--------|--|--|-----|----|---------------------|
| S88 | 1360 | mix\$3 WITH conduct \$4 WITH membrane | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/10/31 08:49 |
| S89 | 58 | S88 and fluidiz\$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/10/31 08:49 |
| S90 | 1 | US-20060013762-\$. did. | US-PGPUB; USPAT | ADJ | ON | 2007/10/31 11:27 |
| S91 | 2 | US-20060013762-\$. did. | US-PGPUB; USPAT; DERWENT | ADJ | ON | 2007/10/31 11:27 |
| S92 | 1 | 2006-123891.NRAN. | DERWENT | ADJ | ON | 2007/10/31 11:28 |
| S93 | 1050 | 432/14-17.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/10/31 17:22 |
| S94 | 329 | S93 and fluidiz\$ | US-PGPUB; USPAT | ADJ | ON | 2007/10/31 17:22 |
| S95 | 5 | S94 and membrane | US-PGPUB; USPAT | ADJ | ON | 2007/10/31 17:23 |
| S96 | 69 | S94 and (membrane or catalyst or ceramic) | US-PGPUB; USPAT | ADJ | ON | 2007/10/31 17:23 |
| S97 | 9 | US-3304249-\$.DID. OR US-20050036940- \$.DID. OR US- 6730285-\$.DID. OR US-6331283-\$.DID. OR US-5846641-\$. DID. OR US- 20030039601-\$.DID. OR US-20040018144- \$.DID. OR US- 6235417-\$.DID. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/10/31 17:54 |
| S98 | 4 | US-5741474-\$.DID. OR US-5861137-\$. DID. OR US- 5938800-\$.DID. OR US-6348278-\$.DID. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/10/31 18:01 |
| S99 | 2 | (5326550 6331283). pn. | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 10:30 |
| S100 | 138451 | (perm or permeable) | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 11:31 |
| S101 | 8926 | S100 NEAR4 select \$5 | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 11:31 |

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|------|--------|--------------------------|--------------------|-----|----|---------------------|
| S102 | 4525 | S101 NEAR4 membrane | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 11:33 |
| S103 | 404 | S102 and fluidiz\$ | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 11:34 |
| S104 | 366 | S102 WITH oxygen | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 11:35 |
| S105 | 23 | S104 and fluidiz\$ | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 11:35 |
| S106 | 138451 | (perm or permeable) | US-PGPUB; USPAT | ADJ | ON | 2007/11/05 15:32 |
| S107 | 8926 | S106 NEAR4 select \$5 | US-PGPUB; USPAT | ADJ | ON | 2007/11/05 15:32 |
| S108 | 4525 | S107 NEAR4 membrane | US-PGPUB; USPAT | ADJ | ON | 2007/11/05 15:32 |
| S109 | 366 | S108 WITH oxygen | US-PGPUB; USPAT | ADJ | ON | 2007/11/05 15:32 |

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